

Listing of Claims:

This listing of claims reflects all claim amendments and replaces all prior versions, and listings, of claims in the application (material to be inserted is in **bold and underline**, and material to be deleted is in ~~strikeout~~ or (if the deletion is of five or fewer consecutive characters or would be difficult to see) in double brackets [[]].

1. (Cancelled)

2. (Cancelled)

3. (Cancelled)

4. (Currently Amended) **A linear positioning system for guiding a rip fence structure on a table saw comprising**
a rail assembly,
a carriage configured to move back and forth along the rail assembly, and
a partially folded coupler sheet rigidly connecting the carriage to the fence structure ~~The system of claim 1, wherein the coupler has an opening through which a handle extends for manipulating an interlock that prevents simultaneous operation of the saw when the fence structure is moving.~~

5. (Original) The system of claim 4 further comprising
an actuator connectable to the handle, and
a plate member, the actuator being mounted on the plate member, the plate member being rigidly secured to the carriage.

6. (Currently Amended) The system of claim 5 wherein the coupler has plural ~~planer~~-planar portions, and the plate member has a main ~~planer~~-planar portion oriented perpendicular to the ~~planer~~-planar portions of the coupler.

7. (Currently Amended) A linear positioning system for guiding a rip fence structure on a table saw comprising

a rail assembly,

a carriage configured to move back and forth along the rail assembly,
wherein the carriage includes an interlock device that prevents the fence structure from moving during operation of the saw, and

a partially folded coupler sheet rigidly connecting the carriage to the fence structure ~~The system of claim 1,~~ wherein the rail assembly includes a substantially circular-cylindrical housing containing a threaded rod, the carriage having complementing threads so the carriage moves along the rail assembly as the threaded rod rotates.

8. (Currently Amended) A linear positioning system for guiding a rip fence structure on a table saw comprising

a rail assembly,

a carriage configured to move back and forth along the rail assembly, and

a partially folded coupler sheet rigidly connecting the carriage to the fence structure ~~The system of claim 1,~~ wherein the carriage has a first T-shaped groove for receiving one or more bolt members fastening the coupler to the carriage, and a second T-shaped groove for fastening an interlock actuator mounting structure.

9. (Original) The system of claim 5, wherein the actuator includes a hydraulic or pneumatic cylinder for driving the handle between locked and unlocked positions.

10. (Cancelled)

11. (Cancelled)

12. (Cancelled)

13. (Cancelled)

14. (Cancelled)

15. (Cancelled)
16. (Cancelled)
17. (Cancelled)
18. (Cancelled)
19. (New) A linear positioning system for guiding a rip fence structure on a table saw comprising
 - a rail assembly,
 - a carriage configured to shuttle along the rail assembly,
 - a coupler connecting the carriage to the fence,
 - an interlock actuator mounting plate connected to the carriage, and
 - an interlock actuator supported by the mounting plate operable to prevent movement of the fence structure when the saw is running.
20. (New) The system of claim 19, wherein the coupler assembly further comprises a partially folded coupler sheet.

21. (New) The system of claim 19, wherein the carriage moves in a processing direction parallel to the direction of fence structure movement, the coupler assembly having plural planar portions oriented parallel to the processing direction.

22. (New) The system of claim 19, wherein the coupler assembly has a top planar portion secured to a top side of the fence structure.

23. (New) The system of claim 19, wherein the interlock actuator device engages a handle for manipulating an interlock that locks the fence structure into position during operation of the saw.

24. (New) The system of claim 23, wherein the coupler assembly has an opening through which the handle extends.

25. (New) The system of claim 24, wherein the opening is a slot.

26. (New) The system of claim 23, wherein the handle extends from the fence structure.

27. (New) The system of claim 19, wherein
the actuator device is connectable to an interlock handle.

28. (New) The system of claim 27, wherein the coupler has plural planar portions, and the plate member has a main planar portion oriented perpendicular to the planar portions of the coupler.

29. (New) The system of claim 19, wherein the actuator device comprises a hydraulic or pneumatic cylinder for driving a locking handle between locked and unlocked positions.

30. (New) The system of claim 19, wherein the rail assembly comprises a substantially cylindrical housing containing a threaded rod, the carriage having complementing threads so the carriage moves along the rail assembly as the threaded rod rotates.

31. (New) The system of claim 19, wherein the carriage has a T-shaped groove for receiving one or more bolt members fastening the coupler to the carriage.